

Table 6.26 Modes

Mode	Meaning	Language(s) or Script
0x00	Select ISO/IEC 10646-1 Page 0x00	ASCII, ISO Latin-1 (Roman) <sup>3</sup>
0x01	Select ISO/IEC 10646-1 Page 0x01	European Latin (many) <sup>4</sup>
0x02	Select ISO/IEC 10646-1 Page 0x02	Standard Phonetic
0x03	Select ISO/IEC 10646-1 Page 0x03	Greek
0x04	Select ISO/IEC 10646-1 Page 0x04	Russian, Slavic
0x05	Select ISO/IEC 10646-1 Page 0x05	Armenian, Hebrew
0x06	Select ISO/IEC 10646-1 Page 0x06	Arabic <sup>5</sup>
0x07-0x08	Reserved	-
0x09	Select ISO/IEC 10646-1 Page 0x09	Devanagari <sup>6</sup> , Bengali
0x0A	Select ISO/IEC 10646-1 Page 0x0A	Punjabi, Gujarati
0x0B	Select ISO/IEC 10646-1 Page 0x0B	Oriya, Tamil
0x0C	Select ISO/IEC 10646-1 Page 0x0C	Telugu, Kannada
0x0D	Select ISO/IEC 10646-1 Page 0x0D	Malayalam
0x0E	Select ISO/IEC 10646-1 Page 0x0E	Thai, Lao
0x0F	Reserved	-
0x10	Select ISO/IEC 10646-1 Page 0x10	Tibetan, Georgian
0x11-0x1F	Reserved	-
0x20	Select ISO/IEC 10646-1 Page 0x20	Miscellaneous
0x21	Select ISO/IEC 10646-1 Page 0x21	Misc. symbols, arrows
0x22	Select ISO/IEC 10646-1 Page 0x22	Mathematical operators
0x23	Select ISO/IEC 10646-1 Page 0x23	Misc. technical
0x24	Select ISO/IEC 10646-1 Page 0x24	OCR, enclosed alpha-num.
0x25	Select ISO/IEC 10646-1 Page 0x25	Form and chart components
0x26	Select ISO/IEC 10646-1 Page 0x26	Miscellaneous dingbats
0x27	Select ISO/IEC 10646-1 Page 0x27	Zapf dingbats
0x28-0x2F	Reserved	-
0x30	Select ISO/IEC 10646-1 Page 0x30	Hiragana, Katakana
0x31	Select ISO/IEC 10646-1 Page 0x31	Bopomopho, Hangul elem.
0x32	Select ISO/IEC 10646-1 Page 0x32	Enclosed CJK Letters, ideo.
0x33	Select ISO/IEC 10646-1 Page 0x33	Enclosed CJK Letters, ideo.
0x34-0x3E	Reserved	-
0x3F	Select 16-bit ISO/IEC 10646-1 mode	all
0x40-0xDF	Reserved	
0xE0-0xFE	User private	
0xFF	Not applicable	

<sup>3</sup> The languages supported by ASCII plus the Latin-1 supplement include Danish, Dutch, English, Faroese, Finnish, Flemish, German, Icelandic, Irish, Italian, Norwegian, Portuguese, Spanish and Swedish. Many other languages can be written with this set of characters, including Hawaiian, Indonesian, and Swahili.

<sup>4</sup> When combined with page zero (ASCII and ISO Latin-1), covers Afrikaans, Breton, Basque, Catalan, Croatian, Czech, Esperanto, Estonian, French, Frisian, Greenlandic, Hungarian, Latin, Latvian, Lithuanian, Maltese, Polish, Provençal, Rhaeto-Romanic, Romanian, Romany, Sami, Slovak, Slovenian, Sorbian, Turkish, Welsh, and many others.

<sup>5</sup> Also Persian, Urdu, Pashto, Sindhi, and Kurdish.

<sup>6</sup> Devanagari script is used for writing Sanskrit and Hindi, as well as other languages of northern India (such as Marathi) and of Nepal (Nepali). In addition, at least two dozen other Indian languages use Devanagari script.

## 7. PSIP STD MODEL

### 7.1 Buffer Model for Terrestrial Broadcast

Table 7.1 lists the maximum cycle time for all PSIP tables, except EITs and ETTs. Table 7.2 lists the maximum transmission rate for PSIP packet streams according to their PIDs. The recommended maximum cycle time for EIT-0 is 500 ms.

**Table 7.1 Maximum cycle time for the STT, MGT, VCT and RRT**

Table	STT	MGT	VCT	RRT
Cycle time (ms)	1000	150	400	60000

**Table 7.2 Maximum rate for each PSIP packet stream**

PID	base_PID	EIT_PID	ETT_PID
Rate (bps)	250,000	250,000	250,000

For terrestrial broadcast applications the following constraints apply:

- In terrestrial broadcast applications, the PSIP elementary streams identified by Transport Stream packets with PID 0x1FFB (*base\_PID*), EIT PIDs and ETT PIDs shall adhere to an STD model with the following parameters:
- *sb\_leak\_rate* shall be 625 (indicating a leak rate of 250,000 bps)
- *sb\_size* shall be 1024 (indicating a smoothing buffer size of 1024 bytes)

### 7.2 Buffer Model for Cable

Transmission rates for cable will be standardized by the SCTE.

## ANNEX A

(Normative)

### DAYLIGHT SAVINGS TIME CONTROL

In order to convert GPS into local time, the receiver needs to store a time offset (from GPS to local time) in local memory and an indicator as to whether daylight savings is observed. These two quantities can be obtained from the user interface (indicating time zone and daylight savings observance) or from the conditional access system, if present, and stored in non-volatile receiver memory.

Since there is a common time (GPS) transmitted in the PSIP, there needs to be a mechanism to indicate when the receiver should switch into (or out of) daylight savings time at the appropriate local time. Once all the receivers have transitioned at their local times, the entire system can be shifted into daylight savings time. This is accomplished by appropriate setting of the `daylight_savings` in the STT. The structure of daylight savings time control is shown in Table A.1, and the basic use of daylight savings fields through the year is shown in Table A.2.

**Table A.1 Structure of Daylight Savings Time Control**

Syntax	Bits	Format
<code>daylight_savings () {</code>		
<b>DS_status</b>	1	bslbf
<b>reserved</b>	2	'11'
<b>DS_day_of_month</b>	5	uimsbf
<b>DS_hour</b>	8	uimsbf
<code>}</code>		

**DS\_status** — This bit indicate the status of daylight savings.

DS\_status = '0': Not in daylight savings time.

DS\_status = '1': In daylight savings time.

**DS\_day\_of\_month** — This 5-bit unsigned integer field indicates the local day of the month on which the transition into or out of daylight savings time is to occur (1-31).

**DS\_hour** — This 8-bit unsigned integer field indicates the local hour at which the transition into or out of daylight savings time is to occur (0-18). This usually occurs at 2 a.m. in the U.S.

**Table A.2 Basic Use of Daylight Savings Fields Through the Year**

Conditions	DS status	DS_day of_month	DS_hour
At the beginning of the year (January) daylight savings is off. This is the status of the fields until:	0	0	0
<ul style="list-style-type: none"> <li>When the transition into daylight savings time is within less than one month, the DS_day_of_month field takes the value day_in, and the DS_hour field takes the value hour_in. The DS_status bit is 0 indicating it is not yet daylight savings time. (The transition is to occur on the day_in day of the month at hour=hour_in; for example, if the transition were on April 15 at 2 a.m., then day_in=15 and hour_in=2)</li> </ul>	0	day_in	hour_in
<ul style="list-style-type: none"> <li>After all time zone daylight transitions (within the span of the network) have occurred, the DS_status bit takes the value 1, indicating that daylight savings time is on. The DS_day_of_month field and the DS_hour field take the value 0. (In the U.S., this transition has to occur no later than 7 p.m. Pacific Time on the day day_in).</li> </ul> This is the status of the fields until:	1	0	0
When the transition out of daylight savings time is within less than one month, the DS_day_of_month field takes the value day_out, and the DS_hour field takes the value hour_out. The DS_status bit is 1 indicating it is still daylight savings time. (The transition is to occur on the day_out day of the month at hour=hour_out; for example, if the transition were on October 27 at 2 a.m., then day_out=27 and hour_out=2)	1	day_out	hour_out
<ul style="list-style-type: none"> <li>After all time zones (within the span of the network) have shifted out of daylight savings time, the DS_status bit takes the value 0, indicating that daylight savings time is off. The DS_day_of_month field and the DS_hour field take the value 0. (In the U.S., this transition has to occur no later than 7 p.m. Pacific Time on the day day_out).</li> </ul> This finishes the cycle.	0	0	0

## ANNEX B

(Normative)

### ASSIGNMENT OF MAJOR CHANNEL NUMBER VALUES FOR TERRESTRIAL BROADCAST IN THE U.S.

The assignment of `major_channel_number` values in the U.S. is based on the rules below.

- For broadcasters with existing NTSC licenses, the `major_channel_number` for the existing NTSC channels, as well as the Digital TV channels, controlled by the broadcaster, shall be set to the current NTSC RF channel number. E.g. Assume a broadcaster who has an NTSC broadcast license for RF channel 13 is assigned RF channel 39 for Digital ATSC broadcast. That broadcaster will use `major_channel_number` 13 for identification of the analog NTSC channel on RF channel 13, as well as the digital channels it is controlling on RF channel 39.
- For a new broadcaster without an existing NTSC license, the `major_channel_number` for the Digital TV channels controlled by the broadcaster shall be set to the FCC assigned RF channel number for ATSC Digital TV broadcast. E.g. Assume a broadcaster who currently has no NTSC broadcast license applies and receives a license for Digital ATSC broadcast on RF channel 49. That broadcaster will use `major_channel_number` 49 for identification of the digital channels that it is controlling on RF channel 49.
- The two provisions above assign `major_channel_number` values 2 through 69 uniquely to broadcasters with license to broadcast NTSC and/or Digital ATSC signals.
- Values for `major_channel_number` from 70 to 99 may be used to identify groups of digital services carried in an ATSC multiplex that the broadcaster wishes to be identified by a different major channel number. Values 70 through 99 must be unique in each potential receiving location or the receiver will not be able to correctly select such services. For example a local broadcaster transmitting community college lectures in its bit stream may want to use a `major_channel_number` different than its own `major_channel_number` for the virtual channel carrying the lectures. The assessment of the feasibility of using this capability, as well as the coordination process for assignment of these `major_channel_number` values is beyond the scope of this document.

## ANNEX C

(Normative)

### STANDARD HUFFMAN TABLES FOR TEXT COMPRESSION<sup>7</sup>

This Annex describes the compression method adopted for the transmission of English-language text strings in PSIP. The method distinguishes two types of text strings: titles and program descriptions. For each of these types, Huffman tables are defined based on 1st-order conditional probabilities. Section C.2 defines standard Huffman encode and decode tables optimized for English-language text such as that typically found in program titles. Section C.3 defines Huffman encode and decode tables optimized for English-language text such as that typically found in program descriptions. Receivers supporting the English language are expected to support decoding of text using either of these two standard Huffman compression tables.

The encode tables provide necessary and sufficient information to build the Huffman trees that need to be implemented for decoding. The decode tables described in Tables C.5 and C.7 are a particular mapping of those trees into a numerical array suitable for storage. This array can be easily implemented and used with the decoding algorithm. However, the user is free to design its own decoding tables as long as they follow the Huffman trees and rules defined in this Annex.

#### C1. CHARACTER SET DEFINITION

This compression method supports the full ISO/IEC 8859-1 (Latin-1) character set, although only characters in the ASCII range (character codes 1 to 127) can be compressed. The following characters have special definitions:

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<sup>7</sup> Tables C.4 through C.7 are © 1997 General Instrument Corporation. Unlimited use in conjunction with this ATSC standard is granted on a royalty-free basis by General Instrument Corporation. All other rights are reserved.

**Table C.1 Characters with Special Definitions**

Character	Value (Decimal)	Meaning
String Terminate (ASCII Null)	0	The <i>Terminate</i> character is used to terminate strings. The Terminate character is appended to the string in either compressed or uncompressed form.  The first encoded character in a compressed string is encoded/decoded from the Terminate sub-tree. In other words, when encoding or decoding the first character in a compressed string, assume that the previous character was a Terminate character.
Order-1 Escape (ASCII ESC)	27	Used to escape from first-order context to uncompressed context. The character which follows the Escape character is uncompressed.

### **C1.1 First Order Escape**

The order-1 Huffman trees are *partial*, that is, codes are not defined for every possible character sequence. For example, the standard decode tables do not contain codes for the character sequence *qp*. When uncompressed text contains a character sequence which is not defined in the decode table, the order-1 escape character is used to escape back to the uncompressed context. Uncompressed symbols are coded as 8-bit ASCII (Latin I). For example, the character sequence *qpa* would be coded with *compressed q, compressed ESC, uncompressed p, compressed a*.

First-order escape rules for compressed strings:

- Any character which follows a first-order escape character is an uncompressed (8-bit) character. (Any character which follows an uncompressed escape character is compressed).
- Characters (128 .. 255) cannot be compressed.
- Any character which follows a character from the set (128 .. 255) is uncompressed.

### **C1.2 Decode Table Data Structures**

Decode tables have two sections:

- **Tree Root Offset List:** Provides the table offsets, in *bytes* from the start of the decode table, for the roots of the 128 first-order decode trees. The list is contained in bytes (0 .. 255) of the decode table, and is defined by the first "for" loop in Table C.1.
- **Order-1 Decode Trees:** Each and every character in the range (0 .. 127) has a corresponding first-order decode tree. For example, if the previous character was "s", then the decoder would use the "s" first-order decode tree (decode tree #115) to decode the next character (ASCII "s" equals 115 decimal). These 128 decode trees are delimited by the second "for" loop in Table C.2.

Decode tables have the following format:

**Table C.2 Decode Table Format**

Syntax	Bits	Format
<code>decode_table() {</code>		
<code>for (i==0; i&lt;128; i++) {</code>		
<code>byte_offset_of_char_i_tree_root</code>	16	uimsbf
<code>}</code>		
<code>for (i==0; i&lt;128; i++) {</code>		
<code>character_i_order_1_tree()</code>	8*M	
<code>}</code>		
<code>}</code>		

Note that even though the ISO Latin-1 character set supports up to 256 characters, only the first 128 characters may be represented in compressed form.

### C1.2.1 Tree Root Byte Offsets

**byte\_offset\_of\_character\_i\_tree\_root**—A 16-bit unsigned integer specifying the location, in bytes from the beginning of the decode table, of the root for the  $i^{\text{th}}$  character's order-1 tree.

### C1.2.2 Order-1 Decode Trees

Order-1 decode trees are binary trees. The roots of the decode trees are located at the table offsets specified in the tree root offset list. The left and right children of a given node are specified as *word* offsets from the root of the tree (a *word* is equivalent to two bytes).

Decode trees have the following format:

**Table C.3 Decode Tree Format**

Syntax	Bits	Format
<code>character_i_order_1_tree() {</code>		
<code>for (j==0; j&lt;N; j++) {</code>		
<code>left_child_word_offset_or_char_leaf</code>	8	uimsbf
<code>right_child_word_offset_or_char_leaf</code>	8	uimsbf
<code>}</code>		
<code>}</code>		

**left\_child\_word\_offset\_or\_character\_leaf**—An 8-bit unsigned integer number with the following interpretation: If the highest bit is cleared (i.e. bit 7 is zero), the number specifies the offset, in words, of the left child from the root of the order-1 decode tree; if the highest bit is set (bit 7 is one), the lower 7 bits give the code (e.g., in ASCII) for a leaf character.

**right\_child\_word\_offset\_or\_character\_leaf**—An 8-bit unsigned integer number with the following interpretation: If the highest bit is cleared (i.e. bit 7 is zero), the number specifies the offset, in

words, of the right child from the root of the order-1 decode tree; if the highest bit is set (bit 7 is one), the lower 7 bits give the code (e.g., in ASCII) for a leaf character.

It can be seen from Table F.3 that each node (corresponding to one iteration of the for-loop) has a byte for the left child or character, and a byte for the right child or character.

Characters are *leaves* of the order-1 decode trees, and are differentiated from intermediate nodes by the byte's most significant bit. When the most significant bit is set, the byte is a character leaf. When the most significant bit is not set, the byte contains the tabular word offset of the child node.

## C2. STANDARD COMPRESSION TYPE 1 ENCODE/DECODE TABLES

The following encode/decode tables are optimized for English-language program title text. These tables correspond to `multiple_string_structure()` with `compression_type` value 0x01, and a mode equal to 0xFF.

**Table C.4 English-language Program Title Encode Table**

Prior Symbol: 0 Symbol: 27 Code: 11001011	Prior Symbol: '' Symbol: 'Z' Code: 00000010	Prior Symbol: ' ' Symbol: ' ' Code: 1101
Prior Symbol: 0 Symbol: '\$' Code: 1100101011	Prior Symbol: '' Symbol: '3' Code: 01000001	Prior Symbol: ' ' Symbol: '1' Code: 1000
Prior Symbol: 0 Symbol: 'Z' Code: 011010010	Prior Symbol: '' Symbol: 'Y' Code: 00000000	Prior Symbol: ' ' Symbol: 'A' Code: 001
Prior Symbol: 0 Symbol: '4' Code: 1100101010	Prior Symbol: '' Symbol: 'A' Code: 10111	Prior Symbol: ' ' Symbol: 'M' Code: 000
Prior Symbol: 0 Symbol: '7' Code: 011010011	Prior Symbol: '' Symbol: 'B' Code: 0010	Prior Symbol: ' ' Symbol: 'R' Code: 1001
Prior Symbol: 0 Symbol: 'A' Code: 0111	Prior Symbol: '' Symbol: 'C' Code: 1100	Prior Symbol: ' ' Symbol: 'S' Code: 1010
Prior Symbol: 0 Symbol: 'B' Code: 1001	Prior Symbol: '' Symbol: 'D' Code: 11100	Prior Symbol: ' ' Symbol: 'T' Code: 1011
Prior Symbol: 0 Symbol: 'C' Code: 1011	Prior Symbol: '' Symbol: 'E' Code: 011010	Prior Symbol: ' ' Symbol: 'U' Code: 1100
Prior Symbol: 0 Symbol: 'D' Code: 11011	Prior Symbol: '' Symbol: 'F' Code: 10011	Prior Symbol: ' ' Symbol: 0 Code: 111
Prior Symbol: 0 Symbol: 'E' Code: 10001	Prior Symbol: '' Symbol: 'G' Code: 00001	Prior Symbol: ' ' Symbol: 27 Code: 101
Prior Symbol: 0 Symbol: 'F' Code: 11000	Prior Symbol: '' Symbol: 'H' Code: 10101	Prior Symbol: ' ' Symbol: ' ' Code: 0
Prior Symbol: 0 Symbol: 'G' Code: 11100	Prior Symbol: '' Symbol: 'I' Code: 111111	Prior Symbol: ' ' Symbol: ' ' Code: 110
Prior Symbol: 0 Symbol: 'H' Code: 11111	Prior Symbol: '' Symbol: 'J' Code: 111110	Prior Symbol: ' ' Symbol: ' ' Code: 10010
Prior Symbol: 0 Symbol: 'I' Code: 10000	Prior Symbol: '' Symbol: 'K' Code: 010011	Prior Symbol: ' ' Symbol: 'S' Code: 1000
Prior Symbol: 0 Symbol: 'J' Code: 01100	Prior Symbol: '' Symbol: 'L' Code: 11110	Prior Symbol: ' ' Symbol: 'W' Code: 10011
Prior Symbol: 0 Symbol: 'K' Code: 1100110	Prior Symbol: '' Symbol: 'M' Code: 0101	Prior Symbol: ' ' Symbol: 27 Code: 1
Prior Symbol: 0 Symbol: 'L' Code: 11101	Prior Symbol: '' Symbol: 'N' Code: 10110	Prior Symbol: ' ' Symbol: 0 Code: 01
Prior Symbol: 0 Symbol: 'M' Code: 1010	Prior Symbol: '' Symbol: 'O' Code: 011011	Prior Symbol: ' ' Symbol: 27 Code: 001
Prior Symbol: 0 Symbol: 'N' Code: 0011	Prior Symbol: '' Symbol: 'P' Code: 11101	Prior Symbol: ' ' Symbol: ' ' Code: 10
Prior Symbol: 0 Symbol: 'O' Code: 011011	Prior Symbol: '' Symbol: 'Q' Code: 100100011	Prior Symbol: ' ' Symbol: ' ' Code: 000
Prior Symbol: 0 Symbol: 'P' Code: 11110	Prior Symbol: '' Symbol: 'R' Code: 10100	Prior Symbol: ' ' Symbol: 'U' Code: 11
Prior Symbol: 0 Symbol: 'Q' Code: 011010000	Prior Symbol: '' Symbol: 'S' Code: 1101	Prior Symbol: ' ' Symbol: 0 Code: 010
Prior Symbol: 0 Symbol: 'R' Code: 11010	Prior Symbol: '' Symbol: 'T' Code: 1000	Prior Symbol: ' ' Symbol: 27 Code: 011
Prior Symbol: 0 Symbol: 'S' Code: 000	Prior Symbol: '' Symbol: 'U' Code: 1001001	Prior Symbol: ' ' Symbol: ' ' Code: 110
Prior Symbol: 0 Symbol: 'T' Code: 010	Prior Symbol: '' Symbol: 'V' Code: 1001011	Prior Symbol: ' ' Symbol: 'U' Code: 111
Prior Symbol: 0 Symbol: 'U' Code: 0110101	Prior Symbol: '' Symbol: 'W' Code: 0011	Prior Symbol: ' ' Symbol: ' ' Code: 100
Prior Symbol: 0 Symbol: 'V' Code: 1100111	Prior Symbol: '' Symbol: 'X' Code: 0000000010	Prior Symbol: ' ' Symbol: 'Z' Code: 101
Prior Symbol: 0 Symbol: 'W' Code: 0010	Prior Symbol: '' Symbol: 'Y' Code: 0000001	Prior Symbol: ' ' Symbol: '9' Code: 00
Prior Symbol: 0 Symbol: 'Y' Code: 1100100	Prior Symbol: '' Symbol: 'Z' Code: 00000011	Prior Symbol: ' ' Symbol: 0 Code: 11
Prior Symbol: 0 Symbol: 'Z' Code: 110010100	Prior Symbol: '' Symbol: 'a' Code: 01100	Prior Symbol: ' ' Symbol: 27 Code: 10
Prior Symbol: 1 Symbol: 27 Code: 1	Prior Symbol: '' Symbol: 'b' Code: 10010101	Prior Symbol: ' ' Symbol: ' ' Code: 01
Prior Symbol: 2 Symbol: 27 Code: 1	Prior Symbol: '' Symbol: 'c' Code: 01000000	Prior Symbol: ' ' Symbol: '1' Code: 000
Prior Symbol: 3 Symbol: 27 Code: 1	Prior Symbol: '' Symbol: 'd' Code: 01000011	Prior Symbol: ' ' Symbol: ' ' Code: 001
Prior Symbol: 4 Symbol: 27 Code: 1	Prior Symbol: '' Symbol: 'e' Code: 0000000011	Prior Symbol: ' ' Symbol: 0 Code: 0
Prior Symbol: 5 Symbol: 27 Code: 1	Prior Symbol: '' Symbol: 'f' Code: 10010000	Prior Symbol: ' ' Symbol: 27 Code: 11
Prior Symbol: 6 Symbol: 27 Code: 1	Prior Symbol: '' Symbol: 'g' Code: 010010	Prior Symbol: ' ' Symbol: 'U' Code: 10
Prior Symbol: 7 Symbol: 27 Code: 1	Prior Symbol: '' Symbol: 'h' Code: 100100010	Prior Symbol: ' ' Symbol: 27 Code: 0
Prior Symbol: 8 Symbol: 27 Code: 1	Prior Symbol: '' Symbol: 'i' Code: 0001	Prior Symbol: ' ' Symbol: '8' Code: 1
Prior Symbol: 9 Symbol: 27 Code: 1	Prior Symbol: '' Symbol: 'j' Code: 0111	Prior Symbol: ' ' Symbol: '7' Code: 1
Prior Symbol: 10 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 0 Code: 1	Prior Symbol: ' ' Symbol: 27 Code: 1
Prior Symbol: 11 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 27 Code: 01	Prior Symbol: ' ' Symbol: 27 Code: 0
Prior Symbol: 12 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: ' ' Code: 00	Prior Symbol: ' ' Symbol: 'U' Code: 1
Prior Symbol: 13 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 27 Code: 0
Prior Symbol: 14 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 'F' Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: ' ' Code: 1
Prior Symbol: 15 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 'S' Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 27 Code: 11
Prior Symbol: 16 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: '1' Code: 0	Prior Symbol: ' ' Symbol: 'U' Code: 01
Prior Symbol: 17 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 'W' Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: '1' Code: 100
Prior Symbol: 18 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: '8' Symbol: 27 Code: 0	Prior Symbol: ' ' Symbol: '3' Code: 101
Prior Symbol: 19 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: ' ' Code: 1	Prior Symbol: ' ' Symbol: '9' Code: 00
Prior Symbol: 20 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: ' ' Symbol: 27 Code: 011	Prior Symbol: ' ' Symbol: 27 Code: 0
Prior Symbol: 21 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: ' ' Code: 010	Prior Symbol: ' ' Symbol: ' ' Code: 1
Prior Symbol: 22 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: '9' Code: 0001	Prior Symbol: ' ' Symbol: 27 Code: 1
Prior Symbol: 23 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 'U' Code: 0000	Prior Symbol: ' ' Symbol: ' ' Code: 1
Prior Symbol: 24 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: '8' Code: 1	Prior Symbol: ' ' Symbol: 27 Code: 1
Prior Symbol: 25 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 'Y' Code: 001	Prior Symbol: ' ' Symbol: 27 Code: 1
Prior Symbol: 26 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: '7' Code: 1	Prior Symbol: ' ' Symbol: 0 Code: 1
Prior Symbol: 27 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 27 Code: 0
Prior Symbol: 28 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 27 Code: 00	Prior Symbol: ' ' Symbol: ' @' Symbol: 27 Code: 1
Prior Symbol: 29 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 'A' Code: 01	Prior Symbol: ' ' Symbol: 'A' Symbol: 27 Code: 00010
Prior Symbol: 30 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 'H' Code: 10	Prior Symbol: ' ' Symbol: 'A' Symbol: ' ' Code: 010
Prior Symbol: 31 Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 'S' Code: 11	Prior Symbol: ' ' Symbol: 'A' Symbol: ' ' Code: 1101000
Prior Symbol: '' Symbol: 27 Code: 10010100	Prior Symbol: ' ' Symbol: ' ' Symbol: 27 Code: 1	Prior Symbol: ' ' Symbol: 'A' Symbol: ' ' Code: 1101001
Prior Symbol: '' Symbol: 'i' Code: 010001	Prior Symbol: ' ' Symbol: 27 Code: 0	Prior Symbol: ' ' Symbol: 'A' Symbol: 'B' Code: 1101010
Prior Symbol: '' Symbol: ' ' Code: 010000100	Prior Symbol: ' ' Symbol: ' ' Code: 1	Prior Symbol: ' ' Symbol: 'A' Symbol: 'b' Code: 110010
Prior Symbol: '' Symbol: ' ' Code: 00000001	Prior Symbol: ' ' Symbol: 27 Code: 01	Prior Symbol: ' ' Symbol: 'A' Symbol: 'c' Code: 01100
Prior Symbol: '' Symbol: '1' Code: 010000101	Prior Symbol: ' ' Symbol: ' ' Code: 111	

Prior Symbol: 'A' Symbol: 'f' Code: 001  
 Prior Symbol: 'A' Symbol: 'Y' Code: 01101  
 Prior Symbol: 'A' Symbol: 'y' Code: 011110  
 Prior Symbol: 'A' Symbol: 'T' Code: 110011  
 Prior Symbol: 'A' Symbol: 't' Code: 100  
 Prior Symbol: 'A' Symbol: 'm' Code: 111  
 Prior Symbol: 'A' Symbol: 'n' Code: 101  
 Prior Symbol: 'A' Symbol: 'p' Code: 110111  
 Prior Symbol: 'A' Symbol: 'q' Code: 0000  
 Prior Symbol: 'A' Symbol: 's' Code: 00011  
 Prior Symbol: 'A' Symbol: 'Y' Code: 011111  
 Prior Symbol: 'A' Symbol: 'u' Code: 11000  
 Prior Symbol: 'A' Symbol: 'v' Code: 1101011  
 Prior Symbol: 'A' Symbol: 'w' Code: 01110  
 Prior Symbol: 'B' Symbol: 'Z' Code: 00010  
 Prior Symbol: 'B' Symbol: 'A' Code: 000110  
 Prior Symbol: 'B' Symbol: 'C' Code: 0000  
 Prior Symbol: 'B' Symbol: 'S' Code: 000111  
 Prior Symbol: 'B' Symbol: 'a' Code: 111  
 Prior Symbol: 'B' Symbol: 'e' Code: 01  
 Prior Symbol: 'B' Symbol: 'T' Code: 1010  
 Prior Symbol: 'B' Symbol: 't' Code: 1011  
 Prior Symbol: 'B' Symbol: 'o' Code: 110  
 Prior Symbol: 'B' Symbol: 'Y' Code: 001  
 Prior Symbol: 'B' Symbol: 'u' Code: 100  
 Prior Symbol: 'C' Symbol: 'Z' Code: 00101  
 Prior Symbol: 'C' Symbol: '' Code: 10110  
 Prior Symbol: 'C' Symbol: 'A' Code: 0011100  
 Prior Symbol: 'C' Symbol: 'B' Code: 001111  
 Prior Symbol: 'C' Symbol: 'O' Code: 101110  
 Prior Symbol: 'C' Symbol: 'a' Code: 100  
 Prior Symbol: 'C' Symbol: 'e' Code: 101111  
 Prior Symbol: 'C' Symbol: 'h' Code: 01  
 Prior Symbol: 'C' Symbol: 'l' Code: 00110  
 Prior Symbol: 'C' Symbol: 'T' Code: 000  
 Prior Symbol: 'C' Symbol: 'o' Code: 11  
 Prior Symbol: 'C' Symbol: 'u' Code: 1010  
 Prior Symbol: 'C' Symbol: 'v' Code: 00100  
 Prior Symbol: 'C' Symbol: 'y' Code: 0011101  
 Prior Symbol: 'D' Symbol: 'Z' Code: 01001  
 Prior Symbol: 'D' Symbol: 'a' Code: 10  
 Prior Symbol: 'D' Symbol: 'e' Code: 111  
 Prior Symbol: 'D' Symbol: 'T' Code: 110  
 Prior Symbol: 'D' Symbol: 'o' Code: 00  
 Prior Symbol: 'D' Symbol: 'Y' Code: 011  
 Prior Symbol: 'D' Symbol: 'v' Code: 0101  
 Prior Symbol: 'D' Symbol: 'y' Code: 01000  
 Prior Symbol: 'E' Symbol: 'Z' Code: 011  
 Prior Symbol: 'E' Symbol: 'C' Code: 1010  
 Prior Symbol: 'E' Symbol: 'a' Code: 111  
 Prior Symbol: 'E' Symbol: 'f' Code: 000  
 Prior Symbol: 'E' Symbol: 'T' Code: 1100  
 Prior Symbol: 'E' Symbol: 'm' Code: 0100  
 Prior Symbol: 'E' Symbol: 'n' Code: 1101  
 Prior Symbol: 'E' Symbol: 'y' Code: 101110  
 Prior Symbol: 'E' Symbol: 'v' Code: 10110  
 Prior Symbol: 'E' Symbol: 'u' Code: 101111  
 Prior Symbol: 'E' Symbol: 'a' Code: 100  
 Prior Symbol: 'E' Symbol: 'x' Code: 001  
 Prior Symbol: 'E' Symbol: 'y' Code: 0101  
 Prior Symbol: 'F' Symbol: 'Z' Code: 011111  
 Prior Symbol: 'F' Symbol: '' Code: 011110  
 Prior Symbol: 'F' Symbol: 'l' Code: 01110  
 Prior Symbol: 'F' Symbol: 'a' Code: 10  
 Prior Symbol: 'F' Symbol: 'e' Code: 0110  
 Prior Symbol: 'F' Symbol: 'T' Code: 110  
 Prior Symbol: 'F' Symbol: 't' Code: 000  
 Prior Symbol: 'F' Symbol: 'o' Code: 010  
 Prior Symbol: 'F' Symbol: 'Y' Code: 111  
 Prior Symbol: 'F' Symbol: 'v' Code: 001  
 Prior Symbol: 'G' Symbol: 'Z' Code: 10110  
 Prior Symbol: 'G' Symbol: '' Code: 101010  
 Prior Symbol: 'G' Symbol: 'A' Code: 101111  
 Prior Symbol: 'G' Symbol: 'a' Code: 1110  
 Prior Symbol: 'G' Symbol: 'e' Code: 110  
 Prior Symbol: 'G' Symbol: 'T' Code: 10100  
 Prior Symbol: 'G' Symbol: 't' Code: 100  
 Prior Symbol: 'G' Symbol: 'Y' Code: 101011  
 Prior Symbol: 'G' Symbol: 'u' Code: 01  
 Prior Symbol: 'G' Symbol: 'v' Code: 00  
 Prior Symbol: 'G' Symbol: 'Y' Code: 1111

Prior Symbol: 'G' Symbol: 'Y' Code: 101110  
 Prior Symbol: 'H' Symbol: '0' Code: 111010  
 Prior Symbol: 'H' Symbol: 'Z' Code: 111011  
 Prior Symbol: 'H' Symbol: 'a' Code: 110  
 Prior Symbol: 'H' Symbol: 'e' Code: 10  
 Prior Symbol: 'H' Symbol: 'T' Code: 1111  
 Prior Symbol: 'H' Symbol: 'o' Code: 0  
 Prior Symbol: 'H' Symbol: 'u' Code: 11100  
 Prior Symbol: 'T' Symbol: '0' Code: 1001  
 Prior Symbol: 'T' Symbol: '' Code: 11110  
 Prior Symbol: 'T' Symbol: '' Code: 111110  
 Prior Symbol: 'T' Symbol: '' Code: 101110  
 Prior Symbol: 'T' Symbol: 'T' Code: 1100  
 Prior Symbol: 'T' Symbol: 'T' Code: 101111  
 Prior Symbol: 'T' Symbol: 'c' Code: 10110  
 Prior Symbol: 'T' Symbol: 'm' Code: 1010  
 Prior Symbol: 'T' Symbol: 'n' Code: 0  
 Prior Symbol: 'T' Symbol: 'Y' Code: 111111  
 Prior Symbol: 'T' Symbol: 's' Code: 1101  
 Prior Symbol: 'T' Symbol: 'u' Code: 1110  
 Prior Symbol: 'J' Symbol: 'Z' Code: 000  
 Prior Symbol: 'J' Symbol: 'a' Code: 01  
 Prior Symbol: 'J' Symbol: 'e' Code: 11  
 Prior Symbol: 'J' Symbol: 'u' Code: 10  
 Prior Symbol: 'J' Symbol: 'v' Code: 001  
 Prior Symbol: 'K' Symbol: 'Z' Code: 000  
 Prior Symbol: 'K' Symbol: 'a' Code: 0100  
 Prior Symbol: 'K' Symbol: 'e' Code: 001  
 Prior Symbol: 'K' Symbol: 'T' Code: 1  
 Prior Symbol: 'K' Symbol: 'Y' Code: 0111  
 Prior Symbol: 'K' Symbol: 'o' Code: 0101  
 Prior Symbol: 'K' Symbol: 'u' Code: 0110  
 Prior Symbol: 'L' Symbol: 'Z' Code: 01001  
 Prior Symbol: 'L' Symbol: '' Code: 01000  
 Prior Symbol: 'L' Symbol: 'a' Code: 10  
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 Prior Symbol: 'L' Symbol: 'T' Code: 11  
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 Prior Symbol: 'M' Symbol: 'a' Code: 11  
 Prior Symbol: 'M' Symbol: 'e' Code: 101110  
 Prior Symbol: 'M' Symbol: 'u' Code: 1010  
 Prior Symbol: 'M' Symbol: 'T' Code: 100  
 Prior Symbol: 'M' Symbol: 'v' Code: 00  
 Prior Symbol: 'M' Symbol: 'C' Code: 10110  
 Prior Symbol: 'M' Symbol: 'Y' Code: 010  
 Prior Symbol: 'M' Symbol: 'Y' Code: 011  
 Prior Symbol: 'N' Symbol: 'Z' Code: 1000  
 Prior Symbol: 'N' Symbol: '' Code: 110001  
 Prior Symbol: 'N' Symbol: 'B' Code: 1001  
 Prior Symbol: 'N' Symbol: 'Y' Code: 110010  
 Prior Symbol: 'N' Symbol: 'W' Code: 110000  
 Prior Symbol: 'N' Symbol: 'a' Code: 1101  
 Prior Symbol: 'N' Symbol: 'e' Code: 0  
 Prior Symbol: 'N' Symbol: 'T' Code: 111  
 Prior Symbol: 'N' Symbol: 'v' Code: 101  
 Prior Symbol: 'N' Symbol: 'Y' Code: 110011  
 Prior Symbol: 'O' Symbol: 'Z' Code: 010  
 Prior Symbol: 'O' Symbol: '' Code: 001  
 Prior Symbol: 'O' Symbol: 'a' Code: 01110  
 Prior Symbol: 'O' Symbol: 'T' Code: 11010  
 Prior Symbol: 'O' Symbol: 'T' Code: 1100  
 Prior Symbol: 'O' Symbol: 'Y' Code: 10  
 Prior Symbol: 'O' Symbol: 'Y' Code: 0001  
 Prior Symbol: 'O' Symbol: 'Y' Code: 0110  
 Prior Symbol: 'O' Symbol: 'Y' Code: 01111  
 Prior Symbol: 'O' Symbol: 'Y' Code: 111  
 Prior Symbol: 'O' Symbol: 'Y' Code: 11011  
 Prior Symbol: 'O' Symbol: 'W' Code: 0000  
 Prior Symbol: 'P' Symbol: 'Z' Code: 1111111  
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 Prior Symbol: 'P' Symbol: '' Code: 011001  
 Prior Symbol: 'P' Symbol: 'G' Code: 111101  
 Prior Symbol: 'P' Symbol: 'R' Code: 111100  
 Prior Symbol: 'P' Symbol: 'a' Code: 00  
 Prior Symbol: 'P' Symbol: 'e' Code: 010  
 Prior Symbol: 'P' Symbol: 'T' Code: 0111

Prior Symbol: 'P' Symbol: 'T' Code: 1110  
 Prior Symbol: 'P' Symbol: 'o' Code: 110  
 Prior Symbol: 'P' Symbol: 'Y' Code: 10  
 Prior Symbol: 'P' Symbol: 'a' Code: 1111101  
 Prior Symbol: 'P' Symbol: 'u' Code: 01101  
 Prior Symbol: 'P' Symbol: 'Y' Code: 011000  
 Prior Symbol: 'Q' Symbol: 'Z' Code: 00  
 Prior Symbol: 'Q' Symbol: 'V' Code: 01  
 Prior Symbol: 'Q' Symbol: 'u' Code: 1  
 Prior Symbol: 'R' Symbol: 'Z' Code: 10001  
 Prior Symbol: 'R' Symbol: 'a' Code: 101  
 Prior Symbol: 'R' Symbol: 'e' Code: 11  
 Prior Symbol: 'R' Symbol: 'h' Code: 10000  
 Prior Symbol: 'R' Symbol: 'T' Code: 00  
 Prior Symbol: 'R' Symbol: 'o' Code: 01  
 Prior Symbol: 'R' Symbol: 'u' Code: 1001  
 Prior Symbol: 'S' Symbol: 'Z' Code: 101110  
 Prior Symbol: 'S' Symbol: '' Code: 111000  
 Prior Symbol: 'S' Symbol: '' Code: 1011011  
 Prior Symbol: 'S' Symbol: 'a' Code: 1111  
 Prior Symbol: 'S' Symbol: 'b' Code: 11100  
 Prior Symbol: 'S' Symbol: 'e' Code: 000  
 Prior Symbol: 'S' Symbol: 'h' Code: 100  
 Prior Symbol: 'S' Symbol: 'T' Code: 1100  
 Prior Symbol: 'S' Symbol: 'K' Code: 101111  
 Prior Symbol: 'S' Symbol: 'T' Code: 1011001  
 Prior Symbol: 'S' Symbol: 'm' Code: 1110110  
 Prior Symbol: 'S' Symbol: 'n' Code: 1110111  
 Prior Symbol: 'S' Symbol: 'o' Code: 1010  
 Prior Symbol: 'S' Symbol: 'p' Code: 001  
 Prior Symbol: 'S' Symbol: 'q' Code: 1011010  
 Prior Symbol: 'S' Symbol: 'T' Code: 01  
 Prior Symbol: 'S' Symbol: 'Y' Code: 1101  
 Prior Symbol: 'S' Symbol: 'Z' Code: 1110101  
 Prior Symbol: 'T' Symbol: 'Z' Code: 1111010  
 Prior Symbol: 'T' Symbol: '' Code: 11110110  
 Prior Symbol: 'T' Symbol: 'N' Code: 11110111  
 Prior Symbol: 'T' Symbol: 'V' Code: 111100  
 Prior Symbol: 'T' Symbol: 'Y' Code: 1010  
 Prior Symbol: 'T' Symbol: 'a' Code: 1011  
 Prior Symbol: 'T' Symbol: 'h' Code: 0  
 Prior Symbol: 'T' Symbol: 'T' Code: 1110  
 Prior Symbol: 'T' Symbol: 'v' Code: 110  
 Prior Symbol: 'T' Symbol: 'Y' Code: 111110  
 Prior Symbol: 'U' Symbol: 'Z' Code: 101  
 Prior Symbol: 'U' Symbol: '' Code: 1001  
 Prior Symbol: 'U' Symbol: 'T' Code: 1000  
 Prior Symbol: 'U' Symbol: 'n' Code: 0  
 Prior Symbol: 'U' Symbol: 'Y' Code: 11  
 Prior Symbol: 'V' Symbol: '0' Code: 000  
 Prior Symbol: 'V' Symbol: 'Z' Code: 0011  
 Prior Symbol: 'V' Symbol: '' Code: 01010  
 Prior Symbol: 'V' Symbol: 'C' Code: 01011  
 Prior Symbol: 'V' Symbol: 'a' Code: 011  
 Prior Symbol: 'V' Symbol: 'e' Code: 0100  
 Prior Symbol: 'V' Symbol: 'T' Code: 1  
 Prior Symbol: 'V' Symbol: 'o' Code: 0010  
 Prior Symbol: 'W' Symbol: 'Z' Code: 00011  
 Prior Symbol: 'W' Symbol: 'W' Code: 000100  
 Prior Symbol: 'W' Symbol: 'W' Code: 000101  
 Prior Symbol: 'W' Symbol: 'a' Code: 111  
 Prior Symbol: 'W' Symbol: 'e' Code: 110  
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 Prior Symbol: 'W' Symbol: 'Y' Code: 0000  
 Prior Symbol: 'X' Symbol: 'Z' Code: 1  
 Prior Symbol: 'Y' Symbol: 'Z' Code: 001  
 Prior Symbol: 'Y' Symbol: 'a' Code: 000  
 Prior Symbol: 'Y' Symbol: 'e' Code: 01  
 Prior Symbol: 'Y' Symbol: 'T' Code: 00  
 Prior Symbol: 'Y' Symbol: 'Y' Code: 01  
 Prior Symbol: 'Z' Symbol: 'Z' Code: 00  
 Prior Symbol: 'Z' Symbol: 'a' Code: 01  
 Prior Symbol: 'Z' Symbol: 'e' Code: 1  
 Prior Symbol: 'Z' Symbol: 'T' Code: 1  
 Prior Symbol: 'Z' Symbol: 'Y' Code: 1  
 Prior Symbol: 'Z' Symbol: 'Z' Code: 1





Table C.5 English-language Program Title Decode Table

0 1	79 220	158 3	237 34	316 155	395 4	474 155
1 0	80 1	159 100	238 7	317 155	396 155	475 160
2 1	81 230	160 3	239 44	318 155	397 226	476 4
3 58	82 1	161 122	240 7	319 155	398 5	477 243
4 1	83 232	162 3	241 70	320 155	399 6	478 228
5 60	84 1	163 148	242 7	321 155	400 7	479 185
6 1	85 234	164 3	243 84	322 155	401 8	480 1
7 62	86 1	165 152	244 7	323 155	402 9	481 244
8 1	87 240	166 3	245 124	324 155	403 213	482 160
9 64	88 1	167 164	246 7	325 155	404 10	483 155
10 1	89 242	168 3	247 138	326 155	405 214	484 2
11 66	90 1	169 200	248 7	327 155	406 11	485 3
12 1	91 244	170 3	249 140	328 155	407 217	486 155
13 68	92 2	171 222	250 7	329 155	408 12	487 155
14 1	93 6	172 3	251 142	330 155	409 166	488 155
15 70	94 2	173 230	252 7	331 155	410 233	489 155
16 1	95 18	174 3	253 144	332 155	411 203	490 1
17 72	96 2	175 244	254 7	333 155	412 197	491 2
18 1	97 20	176 4	255 146	334 155	413 207	492 155
19 74	98 2	177 4	256 27	335 155	414 13	493 193
20 1	99 28	178 4	257 28	336 155	415 14	494 200
21 76	100 2	179 6	258 180	337 155	416 202	495 211
22 1	101 40	180 4	259 164	338 155	417 201	496 155
23 78	102 2	181 12	260 178	339 155	418 15	497 155
24 1	103 48	182 4	261 183	340 155	419 199	498 155
25 80	104 2	183 16	262 218	341 155	420 16	499 160
26 1	105 52	184 4	263 1	342 155	421 17	500 7
27 82	106 2	185 18	264 209	343 155	422 225	501 8
28 1	107 54	186 4	265 2	344 155	423 18	502 177
29 84	108 2	187 20	266 3	345 155	424 19	503 210
30 1	109 56	188 4	267 155	346 155	425 198	504 211
31 86	110 2	189 22	268 4	347 155	426 210	505 212
32 1	111 58	190 4	269 213	348 155	427 200	506 213
33 88	112 2	191 24	270 217	349 155	428 206	507 173
34 1	113 60	192 4	271 5	350 155	429 193	508 205
35 90	114 2	193 26	272 203	351 155	430 196	509 193
36 1	115 62	194 4	273 214	352 155	431 208	510 1
37 92	116 2	195 28	274 6	353 155	432 204	511 2
38 1	117 70	196 4	275 207	354 155	433 20	512 3
39 94	118 2	197 82	276 7	355 155	434 21	513 160
40 1	119 72	198 4	277 8	356 155	435 239	514 4
41 96	120 2	199 106	278 202	357 155	436 194	515 155
42 1	121 74	200 4	279 9	358 155	437 215	516 5
43 98	122 2	201 142	280 201	359 155	438 22	517 6
44 1	123 76	202 4	281 197	360 155	439 205	518 160
45 100	124 2	203 174	282 198	361 155	440 23	519 5
46 1	125 78	204 4	283 10	362 155	441 244	520 201
47 102	126 2	205 238	284 210	363 155	442 212	521 215
48 1	127 80	206 5	285 196	364 155	443 24	522 211
49 104	128 2	207 6	286 199	365 155	444 25	523 1
50 1	129 82	208 5	287 204	366 155	445 26	524 2
51 106	130 2	209 40	288 208	367 155	446 195	525 155
52 1	131 84	210 5	289 200	368 155	447 211	526 174
53 108	132 2	211 68	290 215	369 155	448 27	527 128
54 1	133 126	212 5	291 206	370 155	449 28	528 3
55 110	134 2	213 114	292 11	371 155	450 29	529 4
56 1	135 146	214 5	293 193	372 155	451 30	530 155
57 112	136 2	215 118	294 12	373 155	452 31	531 155
58 1	137 172	216 5	295 194	374 155	453 32	532 2
59 114	138 2	217 144	296 205	375 155	454 33	533 3
60 1	139 186	218 5	297 195	376 41	455 34	534 173
61 116	140 2	219 190	298 13	377 42	456 35	535 155
62 1	141 210	220 5	299 14	378 216	457 36	536 1
63 118	142 2	221 214	300 15	379 229	458 37	537 128
64 1	143 228	222 6	301 16	380 185	459 38	538 160
65 120	144 2	223 10	302 211	381 1	460 39	539 176
66 1	145 250	224 6	303 17	382 167	461 40	540 4
67 206	146 3	225 68	304 212	383 177	462 1	541 5
68 1	147 6	226 6	305 18	384 236	463 128	542 128
69 210	148 3	227 100	306 19	385 209	464 160	543 155
70 1	149 30	228 6	307 20	386 2	465 155	544 177
71 212	150 3	229 102	308 21	387 173	466 155	545 178
72 1	151 38	230 6	309 22	388 178	467 155	546 160
73 214	152 3	231 154	310 23	389 218	468 155	547 176
74 1	153 50	232 6	311 24	390 227	469 155	548 185
75 216	154 3	233 208	312 25	391 179	470 177	549 1
76 1	155 62	234 6	313 26	392 3	471 155	550 2
77 218	156 3	235 252	314 155	393 228	472 155	551 3
78 1	157 82	236 7	315 155	394 230	473 155	552 2

553	3	634	15	715	4	796	9	877	1	958	229	1039	225
554	177	635	16	718	5	797	10	878	236	959	240	1040	155
555	186	636	17	717	225	798	2	879	2	960	232	1041	155
556	1	637	18	716	6	799	3	880	3	961	10	1042	155
557	176	638	8	719	7	800	155	881	160	962	11	1043	155
558	155	639	9	720	8	801	245	882	155	963	12	1044	155
559	128	640	193	721	9	802	1	883	4	964	13	1045	155
560	128	641	211	722	7	803	225	884	5	965	244	1046	155
561	1	642	155	723	8	804	239	885	245	966	14	1047	155
562	176	643	1	724	160	805	229	886	6	967	15	1048	155
563	155	644	195	725	155	806	5	887	7	968	232	1049	155
564	155	645	2	726	204	807	233	888	238	969	10	1050	155
565	184	646	233	727	1	808	225	889	8	970	173	1051	155
566	155	647	236	728	229	809	239	890	11	971	206	1052	25
567	155	648	3	729	2	810	245	891	12	972	155	1053	26
568	155	649	242	730	236	811	238	892	160	973	1	1054	155
569	155	650	245	731	245	812	155	893	243	974	214	1055	186
570	155	651	4	732	239	813	229	894	249	975	2	1056	229
571	176	652	239	733	3	814	1	895	174	976	245	1057	234
572	155	653	225	734	233	815	2	896	210	977	247	1058	248
573	160	654	5	735	242	816	3	897	199	978	3	1059	1
574	2	655	229	736	4	817	4	898	1	979	4	1060	2
575	3	656	6	737	5	818	4	899	155	980	225	1061	230
576	177	657	7	738	225	819	5	900	2	981	229	1062	167
577	179	658	11	739	6	820	160	901	245	982	233	1063	3
578	185	659	12	740	9	821	155	902	3	983	5	1064	250
579	176	660	193	741	10	822	1	903	4	984	242	1065	232
580	1	661	249	742	174	823	245	904	5	985	6	1066	4
581	155	662	1	743	236	824	2	905	233	986	239	1067	247
582	155	663	194	744	249	825	229	906	236	987	7	1068	5
583	160	664	207	745	193	826	239	907	6	988	8	1069	245
584	155	665	229	746	232	827	3	908	229	989	9	1070	226
585	155	666	245	747	1	828	225	909	7	990	238	1071	6
586	155	667	155	748	155	829	233	910	239	991	3	1072	235
587	155	668	233	749	2	830	8	911	8	992	236	1073	7
588	155	669	2	750	3	831	9	912	225	993	174	1074	240
589	155	670	160	751	4	832	170	913	9	994	1	1075	8
590	155	671	3	752	225	833	212	914	242	995	155	1076	128
591	155	672	4	753	245	834	1	915	10	996	2	1077	246
592	155	673	5	754	233	835	155	916	1	997	240	1078	231
593	128	674	242	755	5	836	227	917	245	998	6	1079	9
594	155	675	6	756	229	837	2	918	155	999	233	1080	228
595	155	676	236	757	6	838	242	919	214	1000	160	1081	10
596	19	677	7	758	242	839	3	920	4	1001	195	1082	160
597	20	678	225	759	239	840	229	921	5	1002	239	1083	233
598	170	679	8	760	7	841	4	922	232	1003	155	1084	11
599	173	680	9	761	8	842	245	923	155	1004	229	1085	227
600	174	681	232	762	239	843	249	924	1	1005	1	1086	249
601	246	682	10	763	5	844	233	925	245	1006	128	1087	12
602	231	683	239	764	128	845	5	926	2	1007	2	1088	13
603	244	684	5	765	155	846	239	927	225	1008	3	1089	237
604	226	685	6	766	245	847	6	928	233	1009	225	1090	14
605	233	686	249	767	1	848	7	929	239	1010	4	1091	15
606	1	687	155	768	2	849	225	930	3	1011	5	1092	243
607	2	688	1	769	233	850	229	931	229	1012	6	1093	16
608	194	689	245	770	225	851	8	932	16	1013	7	1094	17
609	240	690	2	771	3	852	206	933	17	1014	198	1095	236
610	155	691	242	772	229	853	160	934	170	1015	215	1096	18
611	243	692	233	773	4	854	198	935	236	1016	1	1097	244
612	227	693	229	774	238	855	245	936	241	1017	155	1098	242
613	230	694	239	775	11	856	1	937	174	1018	242	1099	19
614	247	695	3	776	186	857	2	938	160	1019	2	1100	238
615	3	696	225	777	212	858	155	939	247	1020	3	1101	20
616	245	697	4	778	174	859	194	940	237	1021	232	1102	21
617	4	698	10	779	242	860	3	941	238	1022	229	1103	22
618	5	699	11	780	227	861	225	942	1	1023	225	1104	23
619	6	700	241	781	1	862	4	943	2	1024	4	1105	24
620	242	701	245	782	160	863	239	944	155	1025	233	1106	10
621	7	702	243	783	2	864	5	945	235	1026	239	1107	11
622	8	703	1	784	128	865	233	946	3	1027	5	1108	243
623	9	704	237	785	155	866	6	947	4	1028	155	1109	155
624	10	705	249	786	237	867	7	948	5	1029	155	1110	245
625	11	706	195	787	3	868	9	949	6	1030	2	1111	226
626	12	707	2	788	201	869	10	950	227	1031	239	1112	1
627	228	708	236	789	243	870	228	951	7	1032	225	1113	128
628	180	709	238	790	244	871	243	952	239	1033	155	1114	180
629	13	710	228	791	4	872	230	953	8	1034	1	1115	2
630	236	711	248	792	5	873	246	954	233	1035	229	1116	229
631	238	712	3	793	6	874	247	955	245	1036	1	1117	242
632	14	713	155	794	7	875	240	956	9	1037	239	1118	233
633	237	714	246	795	8	876	242	957	225	1038	155	1119	3

1120	236	1201	161	1282	229	1363	240	1444	6	1525	238	1606	237
1121	4	1202	173	1283	8	1364	5	1445	7	1526	225	1607	167
1122	249	1203	232	1284	9	1365	6	1446	8	1527	13	1608	155
1123	5	1204	234	1285	10	1366	7	1447	243	1528	243	1609	228
1124	239	1205	241	1286	15	1367	225	1448	9	1529	14	1610	1
1125	6	1206	245	1287	16	1368	8	1449	245	1530	233	1611	249
1126	225	1207	250	1288	186	1369	230	1450	10	1531	15	1612	243
1127	7	1208	1	1289	249	1370	242	1451	239	1532	16	1613	242
1128	8	1209	2	1290	167	1371	237	1452	11	1533	244	1614	244
1129	9	1210	3	1291	244	1372	246	1453	12	1534	128	1615	2
1130	16	1211	4	1292	155	1373	9	1454	128	1535	228	1616	232
1131	17	1212	186	1293	1	1374	228	1455	249	1536	229	1617	3
1132	195	1213	248	1294	231	1375	10	1456	225	1537	17	1618	236
1133	204	1214	167	1295	236	1376	239	1457	13	1538	18	1619	240
1134	199	1215	226	1296	2	1377	244	1458	228	1539	231	1620	4
1135	155	1216	233	1297	238	1378	236	1459	233	1540	160	1621	225
1136	227	1217	5	1298	3	1379	243	1460	160	1541	19	1622	233
1137	1	1218	6	1299	239	1380	231	1461	14	1542	20	1623	5
1138	128	1219	7	1300	245	1381	229	1462	15	1543	21	1624	6
1139	236	1220	230	1301	4	1382	11	1463	236	1544	22	1625	128
1140	249	1221	237	1302	242	1383	227	1464	229	1545	23	1626	160
1141	2	1222	231	1303	5	1384	12	1465	16	1546	27	1627	7
1142	243	1223	235	1304	6	1385	13	1466	17	1547	28	1628	8
1143	3	1224	8	1305	233	1386	14	1467	18	1548	174	1629	9
1144	245	1225	9	1306	7	1387	15	1468	19	1549	250	1630	10
1145	4	1226	246	1307	243	1388	16	1469	20	1550	191	1631	229
1146	5	1227	240	1308	225	1389	17	1470	10	1551	1	1632	239
1147	242	1228	10	1309	8	1390	18	1471	11	1552	167	1633	11
1148	6	1229	239	1310	9	1391	19	1472	249	1553	155	1634	12
1149	233	1230	11	1311	10	1392	238	1473	155	1554	2	1635	13
1150	160	1231	227	1312	11	1393	20	1474	245	1555	233	1636	155
1151	7	1232	12	1313	229	1394	239	1475	243	1556	248	1637	245
1152	8	1233	13	1314	128	1395	1	1476	1	1557	249	1638	24
1153	239	1234	14	1315	12	1396	155	1477	2	1558	3	1639	25
1154	244	1235	249	1316	232	1397	225	1478	226	1559	229	1640	186
1155	9	1236	15	1317	160	1398	11	1479	237	1560	232	1641	172
1156	10	1237	228	1318	13	1399	12	1480	128	1561	4	1642	246
1157	225	1238	236	1319	14	1400	212	1481	3	1562	225	1643	155
1158	11	1239	16	1320	229	1401	239	1482	240	1563	235	1644	240
1159	232	1240	229	1321	13	1402	230	1483	239	1564	5	1645	226
1160	235	1241	17	1322	226	1403	236	1484	4	1565	226	1646	1
1161	229	1242	244	1323	245	1404	247	1485	160	1566	6	1647	230
1162	12	1243	247	1324	247	1405	225	1486	5	1567	7	1648	2
1163	13	1244	18	1325	155	1406	1	1487	233	1568	227	1649	167
1164	14	1245	19	1326	236	1407	186	1488	6	1569	8	1650	174
1165	15	1246	225	1327	1	1408	2	1489	225	1570	231	1651	231
1166	14	1247	20	1328	249	1409	155	1490	7	1571	244	1652	3
1167	15	1248	21	1329	238	1410	249	1491	8	1572	9	1653	227
1168	174	1249	22	1330	2	1411	3	1492	9	1573	128	1654	245
1169	245	1250	238	1331	3	1412	4	1493	229	1574	246	1655	4
1170	247	1251	243	1332	4	1413	5	1494	24	1575	240	1656	237
1171	1	1252	23	1333	242	1414	243	1495	25	1576	10	1657	5
1172	236	1253	128	1334	5	1415	6	1496	226	1577	228	1658	6
1173	2	1254	24	1335	128	1416	7	1497	234	1578	11	1659	7
1174	228	1255	25	1336	6	1417	8	1498	242	1579	243	1660	235
1175	231	1256	242	1337	160	1418	233	1499	232	1580	247	1661	8
1176	242	1257	26	1338	225	1419	160	1500	236	1581	12	1662	9
1177	3	1258	27	1339	239	1420	9	1501	237	1582	13	1663	238
1178	155	1259	160	1340	7	1421	128	1502	250	1583	239	1664	242
1179	239	1260	28	1341	244	1422	229	1503	155	1584	236	1665	10
1180	4	1261	29	1342	233	1423	10	1504	1	1585	160	1666	228
1181	246	1262	160	1343	8	1424	21	1505	245	1586	14	1667	11
1182	5	1263	11	1344	9	1425	22	1506	2	1587	15	1668	249
1183	6	1264	245	1345	10	1426	167	1507	3	1588	237	1669	236
1184	249	1265	155	1346	11	1427	186	1508	246	1589	230	1670	12
1185	243	1266	1	1347	12	1428	227	1509	4	1590	16	1671	13
1186	7	1267	236	1348	21	1429	247	1510	186	1591	245	1672	244
1187	233	1268	243	1349	22	1430	242	1511	230	1592	17	1673	128
1188	225	1269	242	1350	161	1431	173	1512	5	1593	18	1674	14
1189	8	1270	128	1351	248	1432	226	1513	6	1594	19	1675	239
1190	9	1271	225	1352	233	1433	1	1514	235	1595	20	1676	243
1191	128	1272	2	1353	235	1434	2	1515	239	1596	21	1677	160
1192	10	1273	3	1354	1	1435	155	1516	7	1597	242	1678	225
1193	11	1274	244	1355	128	1436	230	1517	167	1598	22	1679	15
1194	229	1275	233	1356	155	1437	3	1518	249	1599	238	1680	233
1195	12	1276	239	1357	250	1438	237	1519	8	1600	23	1681	16
1196	13	1277	230	1358	226	1439	246	1520	9	1601	24	1682	17
1197	160	1278	4	1359	2	1440	4	1521	10	1602	25	1683	229
1198	30	1279	5	1360	3	1441	235	1522	11	1603	26	1684	18
1199	31	1280	6	1361	4	1442	5	1523	227	1604	14	1685	19
1200	155	1281	7	1362	160	1443	244	1524	12	1605	15	1686	20

1687	21	1724	13	1761	249	1798	3	1835	233	1872	2	1909	14
1688	22	1725	232	1762	6	1799	233	1836	11	1873	244	1910	243
1689	23	1726	14	1763	244	1800	225	1837	12	1874	3	1911	15
1690	25	1727	15	1764	7	1801	4	1838	167	1875	4	1912	16
1691	26	1728	239	1765	236	1802	228	1839	226	1876	160	1913	17
1692	167	1729	16	1766	8	1803	240	1840	236	1877	19	1914	128
1693	172	1730	17	1767	245	1804	237	1841	227	1878	227	1915	18
1694	191	1731	243	1768	242	1805	226	1842	242	1879	173	1916	5
1695	195	1732	18	1769	9	1806	227	1843	1	1880	228	1917	6
1696	200	1733	233	1770	225	1807	231	1844	155	1881	233	1918	229
1697	228	1734	19	1771	243	1808	236	1845	2	1882	238	1919	250
1698	230	1735	229	1772	10	1809	5	1846	3	1883	239	1920	160
1699	237	1736	20	1773	239	1810	229	1847	4	1884	240	1921	249
1700	242	1737	21	1774	11	1811	6	1848	233	1885	244	1922	155
1701	174	1738	244	1775	12	1812	7	1849	239	1886	246	1923	1
1702	236	1739	22	1776	13	1813	8	1850	238	1887	161	1924	128
1703	238	1740	23	1777	233	1814	9	1851	229	1888	225	1925	233
1704	249	1741	160	1778	128	1815	244	1852	225	1889	237	1926	2
1705	1	1742	24	1779	229	1816	10	1853	128	1890	1	1927	225
1706	2	1743	128	1780	14	1817	11	1854	5	1891	226	1928	3
1707	3	1744	20	1781	160	1818	12	1855	160	1892	2	1929	4
1708	4	1745	21	1782	15	1819	243	1856	6	1893	3	1930	155
1709	186	1746	186	1783	232	1820	238	1857	7	1894	4	1931	155
1710	5	1747	191	1784	16	1821	13	1858	8	1895	167	1932	155
1711	155	1748	228	1785	17	1822	14	1859	9	1896	5	1933	155
1712	245	1749	247	1786	18	1823	242	1860	243	1897	6	1934	155
1713	6	1750	155	1787	19	1824	15	1861	10	1898	247	1935	155
1714	7	1751	167	1788	17	1825	16	1862	5	1899	7	1936	155
1715	8	1752	1	1789	18	1826	4	1863	6	1900	155	1937	155
1716	9	1753	238	1790	235	1827	229	1864	155	1901	236	1938	155
1717	235	1754	2	1791	250	1828	243	1865	160	1902	8	1939	155
1718	240	1755	3	1792	128	1829	239	1866	225	1903	229		
1719	10	1756	4	1793	230	1830	155	1867	229	1904	9		
1720	11	1757	227	1794	155	1831	1	1868	233	1905	10		
1721	12	1758	226	1795	1	1832	225	1869	1	1906	11		
1722	225	1759	237	1796	160	1833	2	1870	128	1907	12		
1723	227	1760	5	1797	2	1834	3	1871	240	1908	13		

### C3. STANDARD COMPRESSION TYPE 2 HUFFMAN ENCODE/DECODE TABLES

The following encode/decode tables are optimized for English-language program description text. These tables correspond to `multiple_string_structure()` with `compression_type` value 0x02, and `mode` equal to 0xFF.

**Table C.6 English-language Program Description Encode Table**

Prior Symbol: 0	Symbol: 27	Code: 1110000	Prior Symbol: ''	Symbol: 'C'	Code: 1111100	Prior Symbol: ''	Symbol: ''	Code: 1	
Prior Symbol: 0	Symbol: ''	Code: 111001	Prior Symbol: ''	Symbol: 'D'	Code: 1111010	Prior Symbol: ''	Symbol: ''	Code: 01	
Prior Symbol: 0	Symbol: 'A'	Code: 010	Prior Symbol: ''	Symbol: 'E'	Code: 0100011	Prior Symbol: ''	Symbol: 27	Code: 10	
Prior Symbol: 0	Symbol: 'B'	Code: 0011	Prior Symbol: ''	Symbol: 'F'	Code: 0101010	Prior Symbol: ''	Symbol: ''	Code: 1110	
Prior Symbol: 0	Symbol: 'C'	Code: 0111	Prior Symbol: ''	Symbol: 'G'	Code: 000010	Prior Symbol: ''	Symbol: 'a'	Code: 000	
Prior Symbol: 0	Symbol: 'D'	Code: 11101	Prior Symbol: ''	Symbol: 'H'	Code: 1111011	Prior Symbol: ''	Symbol: 'b'	Code: 0010	
Prior Symbol: 0	Symbol: 'E'	Code: 10010	Prior Symbol: ''	Symbol: 'I'	Code: 11001011	Prior Symbol: ''	Symbol: 'c'	Code: 110	
Prior Symbol: 0	Symbol: 'F'	Code: 10110	Prior Symbol: ''	Symbol: 'J'	Code: 000011	Prior Symbol: ''	Symbol: 'd'	Code: 00111	
Prior Symbol: 0	Symbol: 'G'	Code: 011011	Prior Symbol: ''	Symbol: 'K'	Code: 1100100	Prior Symbol: ''	Symbol: 'e'	Code: 0100	
Prior Symbol: 0	Symbol: 'H'	Code: 10111	Prior Symbol: ''	Symbol: 'L'	Code: 010110	Prior Symbol: ''	Symbol: 'f'	Code: 0101	
Prior Symbol: 0	Symbol: 'I'	Code: 011000	Prior Symbol: ''	Symbol: 'M'	Code: 101001	Prior Symbol: ''	Symbol: 'g'	Code: 1111	
Prior Symbol: 0	Symbol: 'J'	Code: 1100	Prior Symbol: ''	Symbol: 'N'	Code: 001100	Prior Symbol: ''	Symbol: 'h'	Code: 011	
Prior Symbol: 0	Symbol: 'K'	Code: 00101	Prior Symbol: ''	Symbol: 'O'	Code: 10100001	Prior Symbol: ''	Symbol: ''	Code: 0	
Prior Symbol: 0	Symbol: 'L'	Code: 10011	Prior Symbol: ''	Symbol: 'P'	Code: 001101	Prior Symbol: ''	Symbol: 27	Code: 000	
Prior Symbol: 0	Symbol: 'M'	Code: 1111	Prior Symbol: ''	Symbol: 'R'	Code: 1111100	Prior Symbol: ''	Symbol: ''	Code: 01	
Prior Symbol: 0	Symbol: 'N'	Code: 00100	Prior Symbol: ''	Symbol: 'S'	Code: 01001	Prior Symbol: ''	Symbol: ''	Code: 0010	
Prior Symbol: 0	Symbol: 'O'	Code: 011001	Prior Symbol: ''	Symbol: 'T'	Code: 1100110	Prior Symbol: ''	Symbol: 'j'	Code: 00110	
Prior Symbol: 0	Symbol: 'P'	Code: 000	Prior Symbol: ''	Symbol: 'U'	Code: 11111011	Prior Symbol: ''	Symbol: 's'	Code: 00111	
Prior Symbol: 0	Symbol: 'R'	Code: 1000	Prior Symbol: ''	Symbol: 'V'	Code: 11111100	Prior Symbol: 'f'	Symbol: 27	Code: 0	
Prior Symbol: 0	Symbol: 'S'	Code: 1010	Prior Symbol: ''	Symbol: 'W'	Code: 010000	Prior Symbol: 'f'	Symbol: ''	Code: 1	
Prior Symbol: 0	Symbol: 'T'	Code: 1101	Prior Symbol: ''	Symbol: 'Y'	Code: 11111101	Prior Symbol: 'f'	Symbol: 27	Code: 100	
Prior Symbol: 0	Symbol: 'U'	Code: 1110001	Prior Symbol: ''	Symbol: 'Z'	Code: 101000001	Prior Symbol: 'f'	Symbol: ''	Code: 111	
Prior Symbol: 0	Symbol: 'W'	Code: 011010	Prior Symbol: ''	Symbol: 'a'	Code: 011	Prior Symbol: 'f'	Symbol: 'f'	Code: 00	
Prior Symbol: 1	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'b'	Code: 10111	Prior Symbol: 'f'	Symbol: 'f'	Code: 101	
Prior Symbol: 2	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'c'	Code: 10011	Prior Symbol: 'f'	Symbol: 'f'	Code: 01	
Prior Symbol: 3	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'd'	Code: 10000	Prior Symbol: 'f'	Symbol: 'f'	Code: 110	
Prior Symbol: 4	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'e'	Code: 100010	Prior Symbol: 'f'	Symbol: 27	Code: 111	
Prior Symbol: 5	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'f'	Code: 11101	Prior Symbol: 'f'	Symbol: ''	Code: 10	
Prior Symbol: 6	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'g'	Code: 100011	Prior Symbol: 'f'	Symbol: 'g'	Code: 110	
Prior Symbol: 7	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'h'	Code: 0001	Prior Symbol: 'f'	Symbol: 'g'	Code: 0	
Prior Symbol: 8	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'i'	Code: 10101	Prior Symbol: 'f'	Symbol: 27	Code: 101	
Prior Symbol: 9	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'j'	Code: 11001111	Prior Symbol: 'f'	Symbol: ''	Code: 11	
Prior Symbol: 10	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'k'	Code: 11111010	Prior Symbol: 'f'	Symbol: 27	Code: 0	
Prior Symbol: 11	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'l'	Code: 010111	Prior Symbol: 'f'	Symbol: 'g'	Code: 100	
Prior Symbol: 12	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'm'	Code: 00000	Prior Symbol: 'f'	Symbol: 27	Code: 10	
Prior Symbol: 13	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'n'	Code: 1010001	Prior Symbol: 'f'	Symbol: ''	Code: 0	
Prior Symbol: 14	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'o'	Code: 0010	Prior Symbol: 'f'	Symbol: 'f'	Code: 11	
Prior Symbol: 15	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'p'	Code: 10110	Prior Symbol: 'f'	Symbol: 27	Code: 10	
Prior Symbol: 16	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'q'	Code: 110010101	Prior Symbol: 'f'	Symbol: ''	Code: 11	
Prior Symbol: 17	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'r'	Code: 00111	Prior Symbol: 'f'	Symbol: ''	Code: 0	
Prior Symbol: 18	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 's'	Code: 11100	Prior Symbol: 'f'	Symbol: 27	Code: 11	
Prior Symbol: 19	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 't'	Code: 1101	Prior Symbol: 'f'	Symbol: ''	Code: 10	
Prior Symbol: 20	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'u'	Code: 11111011	Prior Symbol: 'f'	Symbol: ''	Code: 0	
Prior Symbol: 21	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'v'	Code: 1111100	Prior Symbol: 'f'	Symbol: 27	Code: 1	
Prior Symbol: 22	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'w'	Code: 11000	Prior Symbol: 'f'	Symbol: 27	Code: 0	
Prior Symbol: 23	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'y'	Code: 11001110	Prior Symbol: 'f'	Symbol: ''	Code: 10	
Prior Symbol: 24	Symbol: 27	Code: 1	Prior Symbol: 'T'	Symbol: 27	Code: 1	Prior Symbol: 'f'	Symbol: ''	Code: 11	
Prior Symbol: 25	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: ''	Code: 000	Prior Symbol: 'f'	Symbol: 27	Code: 1	
Prior Symbol: 26	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 0	Code: 10	Prior Symbol: 'f'	Symbol: 27	Code: 110	
Prior Symbol: 27	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: ''	Code: 11	Prior Symbol: 'f'	Symbol: ''	Code: 111	
Prior Symbol: 28	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: ''	Code: 001	Prior Symbol: 'f'	Symbol: 'g'	Code: 00	
Prior Symbol: 29	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'h'	Code: 010	Prior Symbol: 'f'	Symbol: 'g'	Code: 01	
Prior Symbol: 30	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'i'	Code: 011	Prior Symbol: 'f'	Symbol: 'g'	Code: 10	
Prior Symbol: 31	Symbol: 27	Code: 1	Prior Symbol: ''	Symbol: 'j'	Code: 1	Prior Symbol: 'f'	Symbol: 27	Code: 0	
Prior Symbol: ''	Symbol: 27	Code: 101000001	Prior Symbol: ''	Symbol: 'k'	Code: 1	Prior Symbol: 'f'	Symbol: ''	Code: 1	
Prior Symbol: ''	Symbol: ''	Code: 111111010	Prior Symbol: ''	Symbol: 'l'	Code: 1	Prior Symbol: 'f'	Symbol: 27	Code: 0	
Prior Symbol: ''	Symbol: ''	Code: 111111100	Prior Symbol: ''	Symbol: 'm'	Code: 27	Code: 1	Prior Symbol: 'f'	Symbol: ''	Code: 1
Prior Symbol: ''	Symbol: ''	Code: 111111110	Prior Symbol: ''	Symbol: 27	Code: 00	Prior Symbol: ''	Symbol: 27	Code: 010	
Prior Symbol: ''	Symbol: 'f'	Code: 1111111111	Prior Symbol: ''	Symbol: ''	Code: 010	Prior Symbol: ''	Symbol: 'a'	Code: 1	
Prior Symbol: ''	Symbol: 'f'	Code: 0101011	Prior Symbol: ''	Symbol: 't'	Code: 011	Prior Symbol: ''	Symbol: 't'	Code: 011	
Prior Symbol: ''	Symbol: 'z'	Code: 0100010	Prior Symbol: ''	Symbol: 'f'	Code: 1	Prior Symbol: ''	Symbol: 27	Code: 1	
Prior Symbol: ''	Symbol: 'z'	Code: 111111101	Prior Symbol: ''	Symbol: 'f'	Code: 1	Prior Symbol: ''	Symbol: 27	Code: 1	
Prior Symbol: ''	Symbol: 'z'	Code: 110010100	Prior Symbol: ''	Symbol: 'j'	Code: 0	Prior Symbol: ''	Symbol: 27	Code: 1	
Prior Symbol: ''	Symbol: 'z'	Code: 101000000	Prior Symbol: ''	Symbol: 'j'	Code: 1	Prior Symbol: ''	Symbol: 27	Code: 1	
Prior Symbol: ''	Symbol: 'A'	Code: 10010	Prior Symbol: ''	Symbol: 'v'	Code: 27	Code: 1	Prior Symbol: ''	Symbol: 'v'	Code: 10011
Prior Symbol: ''	Symbol: 'B'	Code: 010100	Prior Symbol: ''	Symbol: 27	Code: 00	Prior Symbol: ''	Symbol: 'A'	Code: 10010	







**Table C.7 English-language Program Description Decode Table**

0 1	79 242	158 3	237 134	316 155	395 197	474 52
1 0	80 1	159 16	238 6	317 155	396 198	475 53
2 1	81 248	160 3	239 146	318 155	397 177	476 54
3 44	82 1	161 26	240 6	319 155	398 10	477 55
4 1	83 250	162 3	241 170	320 155	399 238	478 155
5 46	84 1	163 40	242 6	321 155	400 203	479 155
6 1	85 252	164 3	243 184	322 155	401 11	480 3
7 48	86 1	165 42	244 6	323 155	402 212	481 4
8 1	87 254	166 3	245 220	324 155	403 12	482 128
9 50	88 2	167 52	246 6	325 155	404 196	483 174
10 1	89 0	168 3	247 236	326 155	405 200	484 200
11 52	90 2	169 74	248 6	327 155	406 210	485 212
12 1	91 4	170 3	249 238	328 155	407 13	486 1
13 54	92 2	171 90	250 6	329 155	408 14	487 2
14 1	93 22	172 3	251 240	330 155	409 15	488 155
15 56	94 2	173 94	252 6	331 155	410 199	489 160
16 1	95 32	174 3	253 242	332 155	411 202	490 155
17 58	96 2	175 100	254 6	333 155	412 206	491 155
18 1	97 34	176 3	255 244	334 155	413 208	492 155
19 60	98 2	177 110	256 20	335 155	414 215	493 155
20 1	99 44	178 3	257 21	336 155	415 16	494 155
21 62	100 2	179 112	258 155	337 155	416 194	495 155
22 1	101 50	180 3	259 214	338 155	417 17	496 155
23 64	102 2	181 114	260 201	339 155	418 204	497 155
24 1	103 56	182 3	261 207	340 155	419 236	498 2
25 66	104 2	183 116	262 215	341 155	420 229	499 243
26 1	105 80	184 3	263 199	342 155	421 231	500 160
27 68	106 2	185 118	264 1	343 155	422 18	501 244
28 1	107 64	186 3	265 162	344 155	423 205	502 155
29 70	108 2	187 120	266 206	345 155	424 19	503 1
30 1	109 68	188 3	267 203	346 155	425 20	504 155
31 72	110 2	189 122	268 2	347 155	426 195	505 155
32 1	111 70	190 3	269 3	348 155	427 21	506 172
33 74	112 2	191 124	270 197	349 155	428 22	507 155
34 1	113 74	192 3	271 204	350 155	429 23	508 155
35 76	114 2	193 126	272 198	351 155	430 237	509 155
36 1	115 76	194 3	273 200	352 155	431 24	510 155
37 78	116 2	195 128	274 4	353 155	432 25	511 155
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